Blakely, Sokoloff, Taylor & Zafman LLP
Title: apparatus and method for processing 3d video based on (310) 207-3800
mpeg-4 object descriptor information
1st Named Inventor: Kug-Jin Yun
Express Mail No.: EV665824816US
Sheet: 1/7   Docket No.: 51876P1101

FIG. 1

TAG= 0x1	length field	Object Descriptor ID	URL_ Flag	Reserved =1111.1	Optional Fields	extDescr [0...255]
110	120	130	140	150	160	170

8   8/16/24/32   10   1   5

URL_Flag==1

URL length	URLstring
161	162

8   8*URLlength

URL_Flag==0

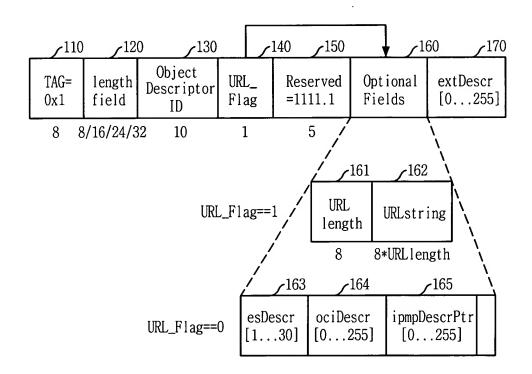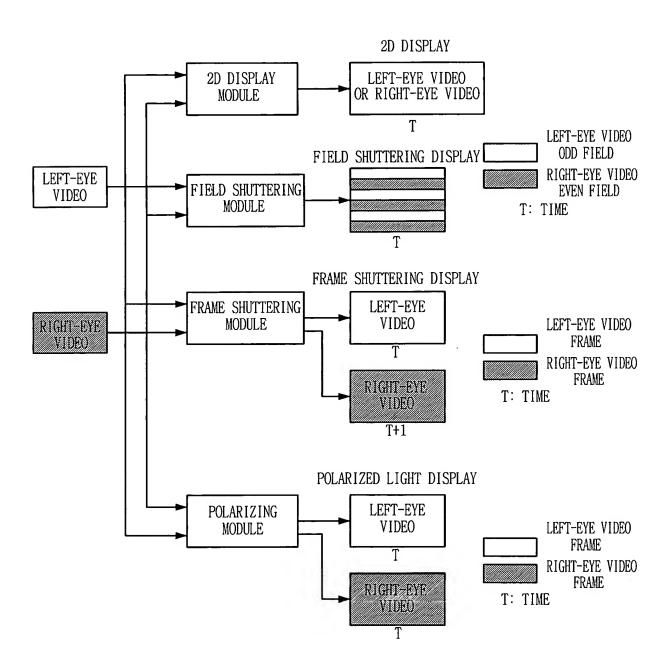| esDescr [1...30]	ociDescr [0...255]	ipmpDescrPtr [0...255]	
163	164	165	

Blakely, Sokoloff, Taylor & Zafman LLP   (310) 207-3800
Title: apparatus and method for processing 3d video based on
mpeg-4 object descriptor information
1st Named Inventor: Kug-Jin Yun
Express Mail No.: EV665824816US   Docket No.: 51876P1101
Sheet: 2/7

FIG. 2

FIG. 3
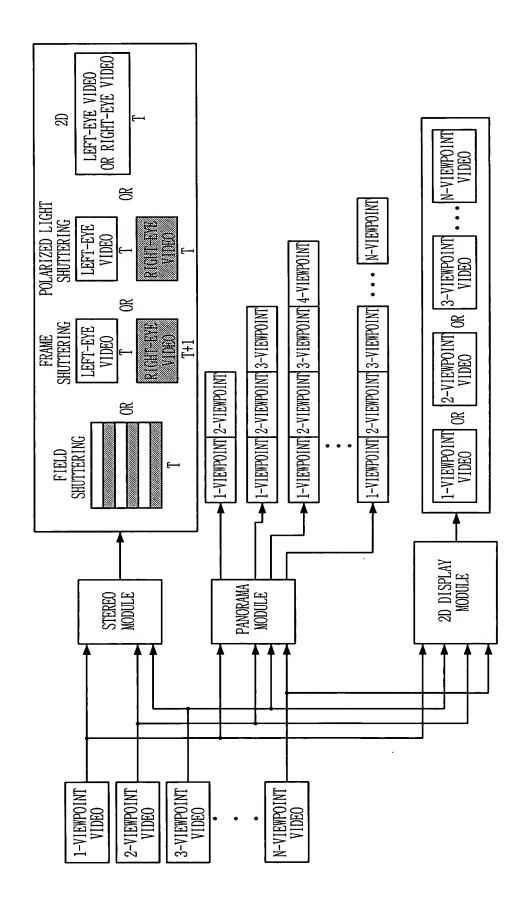
Blakely, Sokoloff, Taylor & Zafman LLP (310) 207-3800
Title: apparatus and method for processing 3d video based on
mpeg-4 object descriptor information
1st Named Inventor: Kug-Jin Yun ·
Express Mail No.: EV665824816US   Docket No.: 51876P1101
Sheet: 4/7

FIG. 4

Blakely, Sokoloff, Taylor & Zafman LLP   (310) 207-3800
Title: apparatus and method for processing 3d video based on
mpeg-4 object descriptor information
1st Named Inventor: Kug-Jin Yun
Express Mail No.: EV665824816US   Docket No.: 51876P1101
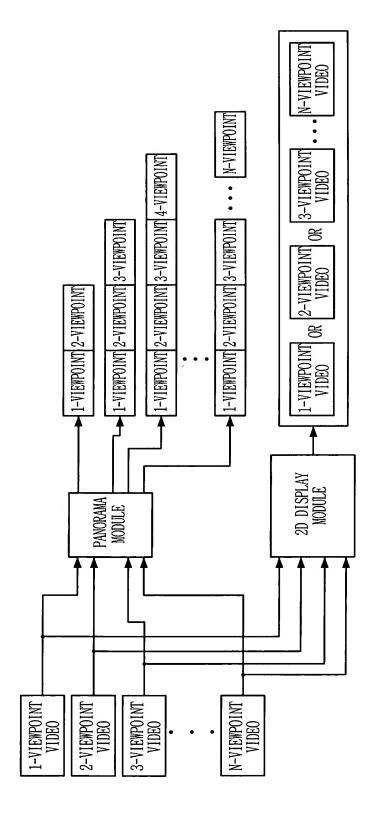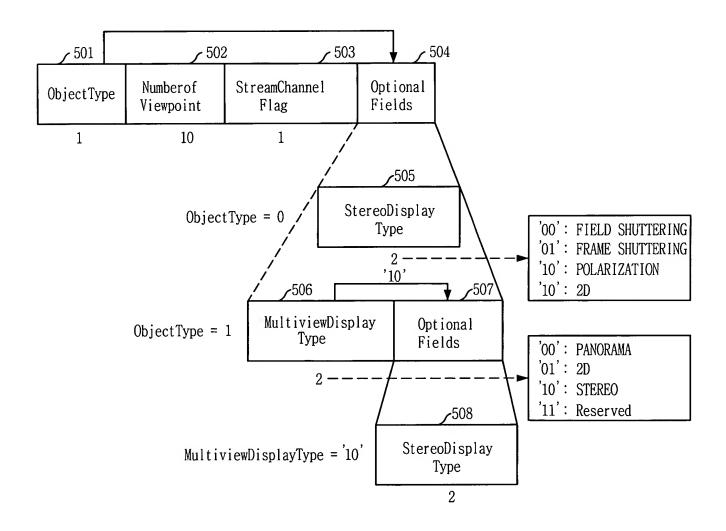Sheet: 5/7

FIG. 5

Blakely, Sokoloff, Taylor & Zafman LLP   (310) 207-3800
Title: apparatus and method for processing 3d video based on
mpeg-4 object descriptor information
1st Named Inventor: Kug-Jin Yun
Express Mail No.: EV665824816US   Docket No.: 51876P1101
Sheet: 6/7

FIG. 6

622 Decoding module

623 Display module

621 Depacketizing module

610 Network

606 Packetizing module

604 Encoding module

605 MP4 file generating module

603 MPEG-4 control signal generating module
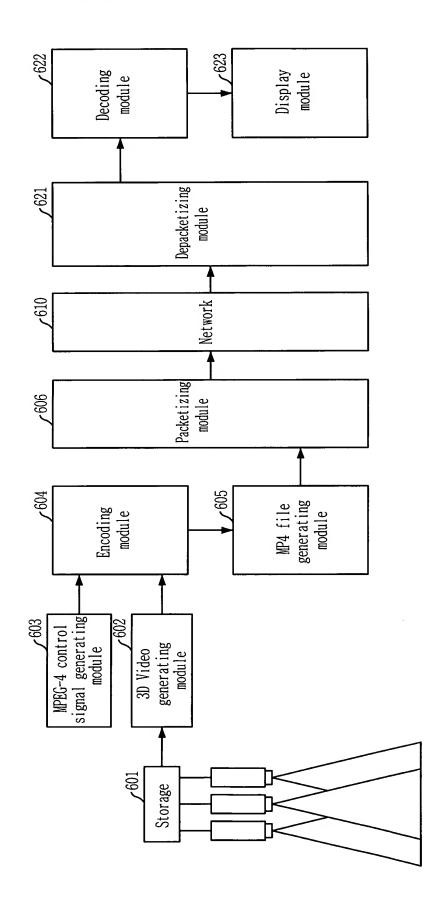
602 3D Video generating module

601 Storage

Blakely, Sokoloff, Taylor & Zafman LLP   (310) 207-3800
Title: apparatus and method for processing 3d video based on
mpeg-4 object descriptor information
1st Named Inventor: Kug-Jin Yun,
Express Mail No.: EV665824816US   Docket No.: 51876P1101
Sheet: 7/7

FIG. 7

Start

701 Request from client?

No → 702 Waiting

Yes ↓

703 Transmit initial object descriptor from server

704 Establish session for 3D video service

705 Receive request for object descriptor/BIFS from client

706 Transmit object descriptor/BIFS from server

707 Establish channel for transmitting 3D video data

708 Request 3D video data in client

709 Transmit 3D video data

710 Restore and display 3D video data

End